CLAIMS

What is claimed is:

1. A method for verifying trusted status of a service-providing server in a peer-to-peer network, comprising:

5   broadcasting a request over the network by a requesting peer for a task with respect to a remote non-local backend server;

             receiving a response to the request from the service-providing server;

             verifying a digital certificate of the response issued by the remote non-local backend server indicating that the responding service-providing server is trusted for the

10 requested task; and

             forwarding the task to a local alias URL of the responding peer for performance of the task by the responding server if said verifying is successful.

2. A method for verifying trusted status of a service-providing peer of claim 1,

15 wherein the digital certificate is a 1024-bit VeriSign digital certificate.

3. A method for verifying trusted status of a service-providing peer of claim 1, wherein said verifying verifies that the local alias URL is approved by the non-local backend server for the requested task.

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4. A method for verifying trusted status of a service-providing peer of claim 1, further comprising placing the responding server node in a black list of the requesting peer for the requested task if said verifying is unsuccessful.

5.   A method for verifying trusted status of a service-providing peer of claim 1,

further comprising awaiting for another response from another service-providing server if

the verifying is unsuccessful.

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6.   A method for verifying trusted status of a service-providing peer of claim 1,

further comprising broadcasting a message indicating that the requesting peer has located

the responding service-providing server.

10   7.   A method for verifying trusted status of a service-providing peer of claim 1,

further comprising receiving the local alias URL from the responding peer, the local alias

URL pointing to a destination on a responding server node.

8.   A method for verifying trusted status of a service-providing peer of claim 1,

15   wherein the request specifies a post method.

9.   A method for verifying trusted status of a service-providing peer of claim 1,

wherein the task is an uploading task and wherein said forwarding the task to the local

alias URL includes forwarding a file to be uploaded to the remote non-local backend

20   server.

10.   A computer program product for verifying trusted status of a service-providing peer in a peer-to-peer network, comprising:

computer code that broadcasts a request over the network by a requesting peer for a task with respect to a remote non-local backend server;

5   computer code that receives a response to the request from the service-providing server;

computer code that verifies a digital certificate of the response issued by the remote non-local backend server indicating that the responding service-providing server is trusted for the requested task; and

10   computer code that forwards the task to a local alias URL of the responding peer for performance of the task by the responding server if said verifying is successful; and

a computer readable medium that stores said computer codes.

15   11.   A computer program product for verifying trusted status of a service-providing peer of claim 10, wherein the digital certificate is a 1024-bit VeriSign digital certificate.

12.   A computer program product for verifying trusted status of a service-providing peer of claim 10, wherein the computer code that verifies includes computer
20   code the verifies the local alias URL is approved by the non-local backend server for the requested task.

13.   A computer program product for verifying trusted status of a service-providing peer of claim 10, further comprising computer code that places the responding server node in a black list of the requesting peer for the requested task if said verifying is unsuccessful.

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14.   A computer program product for verifying trusted status of a service-providing peer of claim 10, further comprising computer code that awaits for another response from another service-providing server if the verifying is unsuccessful.

10   15.   A computer program product for verifying trusted status of a service-providing peer of claim 10, further comprising computer code that broadcasts a message indicating that the requesting peer has located the responding service-providing server.

16.   A computer program product for verifying trusted status of a service-providing peer of claim 10, further comprising computer code that receives the local alias
15   URL from the responding peer, the local alias URL pointing to a destination on a responding server node.

17.   A computer program product for verifying trusted status of a service-providing peer of claim 10, wherein the request specifies a post method.
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18. A computer program product for verifying trusted status of a service-providing peer of claim 10, wherein the task is an uploading task and wherein computer code that forwards the task to the local alias URL includes computer code that forwards a file to be uploaded to the remote non-local backend server.